

Y-210 – DE and E Filament Yarn

DE and E filament yarns are used in further fabrications such as warping and weaving for glass fabrics and tapes.

General Product Specifications

Product Information

Product	ECDE75		ECDE100	ECDE150	ECE225	
Glass Type	E		E	E	E	
Filament Diameter - μm	6	6	6	6	7	7
Binder	620	620	636	620	620-1	620-1
Bobbin	8542	8571	8542	8542	8542	9228
Plies	1/0	1/0	1/0	1/0	1/0	2/0
Nominal Yield - yd/lb	7,500	7,500	10,000	15,000	22,500	11,250
Tex - g/1000 m	66.10	66.10	49.60	33.10	22.00	44.10
Tex Tolerance +/-	4.30	4.30	2.80	1.90	1.20	2.50
Nominal Solids - %	1.42	1.42	1.50	1.50	1.60	1.60
Solids Tolerance +/-	0.17	0.17	0.20	0.25	0.25	0.25
Nominal Twist - TPI (TPM)	0.7Z (Z28)	0.7Z (Z28)	0.7Z (Z28)	0.7Z (Z28)	1.0Z (Z40)	4.0Z (Z160)
Twist Tolerance +/- TPI (TPM)	0.21 (8)	0.21 (8)	0.21 (8)	0.21 (8)	0.30 (12)	0.60 (24)
Maximum Broken Filaments*	10	10	10	10	10	10
Minimum Tensile** - lb (N)	5.7 (25.4)	5.7 (25.4)	4.3 (19.1)	3.5 (15.6)	2.4 (10.7)	4.8 (21.4)

* Broken filaments based on average 360° check

** Average of 5 measurements

Nominal Product Characteristics

(For reference only, not specified or controlled)

Average Bare Glass Tensile* - lb (N)	9.6 (42.7)	9.6 (42.7)	6.8 (30.2)	5.1 (22.7)	3.3 (14.7)	5.8 (25.8)
Approximate Yarn Diameter - in (mm)	0.0106 (0.269)	0.0106 (0.269)	0.0098 (0.249)	0.0080 (0.203)	0.0065 (0.165)	0.0079 (0.201)

* Average tensile per bobbin

Packaging Information

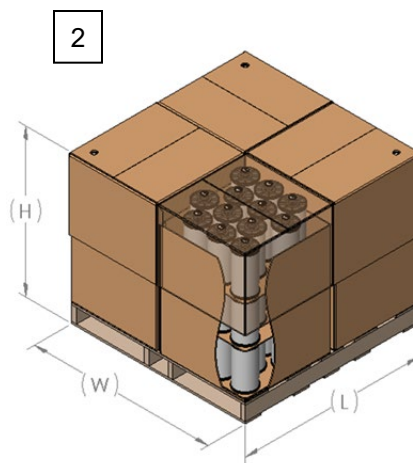
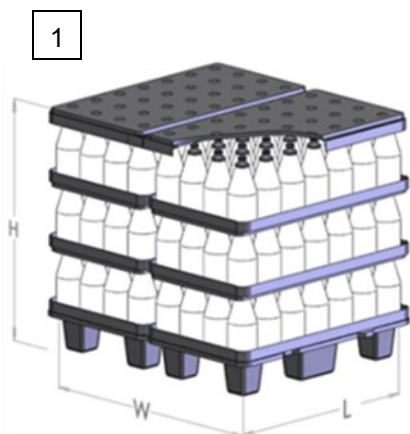
Bobbin	8542	8571	8542	8542	8542	9228
Nominal Bobbin Weight - lb (kg)	8.0 (3.63)	16.4 (7.44)	8.1 (3.67)	6.8 (3.08)	9.0 (4.08)	7.6 (3.45)
Minimum Bobbin Weight - lb (kg)	2.0 (0.91)	2.0 (0.91)	2.0 (0.91)	2.0 (0.91)	2.0 (0.91)	2.0 (0.91)
Metered Bobbin Length - yd (m)	60,000 (54,800)	121,500 (111,100)	81,000 (74,000)	99,700 (91,100)	197,200 (180,300)	85,300 (78,000)
Metered Ratio - %	75	75	70	50	70	70

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Nominal Packaging Dimensions

Fig	Bobbin	Pallet	Bobbins / Layer	Layers / Carton	Cartons / Pallet	Bobbins / Pallet	L-in (cm)	W-in (cm)	H-in (cm)
1	8542	RPPU	28	3	2	168	52.0 (132.1)	45.5 (115.6)	46.0 (116.8)
1	8571	RPPU	15	2	2	60	51.5 (130.8)	45.5 (115.6)	42.0 (106.7)
2	9228	Wood	12	3	4	144	45.5 (115.6)	45.5 (115.6)	38.5 (97.8)



NOTE: Picture above is an example of the RPPU packaging, please see the table above for accurate bobbin counts.

Storage, Shelf Life and Handling

Storage and Shelf Life:

AGY recommends storing the materials in accordance with appropriate safety considerations, away from exposure to the elements and at 65-80F (18-27C) and 50-70% humidity. If the materials are stored under these conditions, they are stable, non reactive and will not degrade or exhibit negative characteristics for at least 3 years from the date of manufacture. Unused, unopened product older than this is likely still in good condition, however careful evaluation is recommended. Prior to use, pallets should be placed in the production area and any plastic wrap removed for a minimum of 24 hours to allow the material to acclimate to the processing environment. Special care should be given to pallets being moved from a cold environment into a warm, humid area as condensation may occur and this additional moisture can negatively impact the runability of the material, however, once the material has acclimated, this will no longer be an issue.

For product traceability reasons, the pallet label should be recorded or retained.

Handling:

Fiberglass products process best if temperature and humidity are controlled, primarily because this will help to minimize the buildup of static electricity, fuzz and fly. AGY recommends that the material be run at 70 +/- 5 degrees F (18-27C) and 60 +/- 5% RH.

Test Methods and Certificates

A copy of test methods and or a certificate of conformity may be issued upon request.

Packages will be firmly and evenly wound on the bobbin, and free from defects in workmanship. AGY accepts no responsibility for damaged material that shows any signs of physical abuse.

For additional product information, refer to PTS M-710

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